Exploring Aeronautics			
2007 Science			
Grade Level and High School Content Expectations			
Michigan Science			
Grade 5			
Activity/Lesson	**State**	**Standards**	
Fundamentals of Aeronautics (145-176)	MI	SCI.5.P.FM.05.31	Describe what happens when two forces act on an object in the same or opposing directions.
Fundamentals of Aeronautics (145-176)	MI	SCI.5.P.FM.05.33	Describe how changes in the motion of objects are caused by a non-zero net (unbalanced) force.
Fundamentals of Aeronautics (145-176)	MI	SCI.5.P.FM.05.34	Relate the size of change in motion to the strength of unbalanced forces and the mass of the object.
Tools of Aeronautics(257-326)	MI	SCI.5.S.RS.05.16	Design solutions to problems using technology.
How an Airplane Flies	MI	SCI.5.P.FM.05.32	Describe how constant motion is the result of balanced (zero net) forces.
Science of Flight	MI	SCI.5.S.IP.05.11	Generate scientific questions based on observations, investigations, and research.
Science of Flight	MI	SCI.5.S.RS.05.16	Design solutions to problems using technology.
Science of Flight	MI	SCI.5.S.RS.05.19	Describe how science and technology have advanced because of the contributions of many people throughout history and across cultures.
Integrating with Aeronautics	MI	SCI.5.S.IP.05.14	Use metric measurement devices in an investigation.
Intro to Aeronautics (109-123)	MI	SCI.5.S.RS.05.19	Describe how science and technology have advanced because of the contributions of many people throughout history and across cultures.
Scientific Method(124-144)	MI	SCI.5.S.IP.05.11	Generate scientific questions based on observations, investigations, and research.
Scientific Method(124-144)	MI	SCI.5.S.IP.05.12	Design and conduct scientific investigations.
Scientific Method(124-144)	MI	SCI.5.S.IA.05.12	Evaluate data, claims, and personal knowledge through collaborative science discourse.
Scientific Method(124-144)	MI	SCI.5.S.IA.05.14	Draw conclusions from sets of data from multiple trials of a scientific investigation.
Scientific Method(124-144)	MI	SCI.5.S.IA.05.15	Use multiple sources of information to evaluate strengths and weaknesses of claims, arguments, or data.
Scientific Method(124-144)	MI	SCI.5.S.RS.05.11	Evaluate the strengths and weaknesses of claims, arguments, and data.
Exploring Aeronautics			
2007 Science			
Grade Level and High School Content Expectations			
Michigan Science			
Grade 6			
Activity/Lesson	**State**	**Standards**	

Tools of Aeronautics(257-326)	MI	SCI.6.S.RS.06.15	Demonstrate scientific concepts through various illustrations, performances, models, exhibits, and activities.
Tools of Aeronautics(257-326)	MI	SCI.6.S.RS.06.16	Design solutions to problems using technology.
The Tools of Aeronautics	MI	SCI.6.S.RS.06.15	Demonstrate scientific concepts through various illustrations, performances, models, exhibits, and activities.
The Tools of Aeronautics	MI	SCI.6.S.RS.06.16	Design solutions to problems using technology.
Science of Flight	MI	SCI.6.S.IA.06.14	Draw conclusions from sets of data from multiple trials of a scientific investigation.
Science of Flight	MI	SCI.6.S.RS.06.15	Demonstrate scientific concepts through various illustrations, performances, models, exhibits, and activities.
Science of Flight	MI	SCI.6.S.RS.06.16	Design solutions to problems using technology.
Science of Flight	MI	SCI.6.S.RS.06.18	Describe what science and technology can and cannot reasonably contribute to society.
Science of Flight	MI	SCI.6.S.RS.06.19	Describe how science and technology have advanced because of the contributions of many people throughout history and across cultures.
Intro to Aeronautics (109-123)	MI	SCI.6.S.RS.06.19	Describe how science and technology have advanced because of the contributions of many people throughout history and across cultures.
Scientific Method(124-144)	MI	SCI.6.S.IP.06.11	Generate scientific questions based on observations, investigations, and research.
Scientific Method(124-144)	MI	SCI.6.S.IP.06.12	Design and conduct scientific investigations.
Scientific Method(124-144)	MI	SCI.6.S.IA.06.11	Analyze information from data tables and graphs to answer scientific questions.
Scientific Method(124-144)	MI	SCI.6.S.IA.06.14	Draw conclusions from sets of data from multiple trials of a scientific investigation.
Scientific Method(124-144)	MI	SCI.6.S.IA.06.15	Use multiple sources of information to evaluate strengths and weaknesses of claims, arguments, or data.
Scientific Method(124-144)	MI	SCI.6.S.RS.06.11	Evaluate the strengths and weaknesses of claims, arguments, and data.
Exploring Aeronautics			
2007 Science			
Grade Level and High School Content Expectations			
Michigan Science			
Grade 7			
Activity/Lesson	**State**	**Standards**	
Tools of Aeronautics(257-326)	MI	SCI.7.S.RS.07.15	Demonstrate scientific concepts through various illustrations, performances, models, exhibits, and activities.
Tools of Aeronautics(257-326)	MI	SCI.7.S.RS.07.16	Design solutions to problems using technology.
The Tools of Aeronautics	MI	SCI.7.S.RS.07.15	Demonstrate scientific concepts through various illustrations, performances, models, exhibits, and activities.

The Tools of Aeronautics	MI	SCI.7.S.RS.07.16	Design solutions to problems using technology.
Science of Flight	MI	SCI.7.S.IP.07.15	Construct charts and graphs from data and observations.
Science of Flight	MI	SCI.7.S.IA.17.13	Communicate and defend findings of observations and investigations.
Science of Flight	MI	SCI.7.S.IA.07.14	Draw conclusions from sets of data from multiple trials of a scientific investigation to draw conclusions.
Science of Flight	MI	SCI.7.S.RS.07.15	Demonstrate scientific concepts through various illustrations, performances, models, exhibits, and activities.
Science of Flight	MI	SCI.7.S.RS.07.18	Describe what science and technology can and cannot reasonably contribute to society.
Science of Flight	MI	SCI.7.S.RS.07.19	Describe how science and technology have advanced because of the contributions of many people throughout history and across cultures.
Integrating with Aeronautics	MI	SCI.7.S.RS.07.19	Describe how science and technology have advanced because of the contributions of many people throughout history and across cultures.
Scientific Method(124-144)	MI	SCI.7.S.IP.07.11	Generate scientific questions based on observations, investigations, and research.
Scientific Method(124-144)	MI	SCI.7.S.IP.07.12	Design and conduct scientific investigations.
Scientific Method(124-144)	MI	SCI.7.S.IP.07.16	Identify patterns in data.
Scientific Method(124-144)	MI	SCI.7.S.IA.07.11	Analyze information from data tables and graphs to answer scientific questions.
Scientific Method(124-144)	MI	SCI.7.S.RS.07.11	Evaluate the strengths and weaknesses of claims, arguments, and data.
Scientific Method(124-144)	MI	SCI.7.S.RS.07.16	Design solutions to problems using technology.